

## Message Text

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FM SECSTATE WASHDC

TO AMEMBASSY CARACAS

INFO AMEMBASSY SAN SALVADOR

UNCLAS STATE 019663

SAN SALVADOR FOR MAX CHAPLIN, CARACAS FOR PAO

E.O. 11652: N/A

TAGS: OEXC, VE

SUBJECT: PROPOSED PROGRAM FOR VENEZUELAN ENERGY PROJECT  
(MORTON OFFER)

1. AS PER TELECON MASON-HIGGINS JANUARY 22, DEPARTMENT

FORWARDS DRAFT PROGRAM FOR "MORTON OFFER" ENERGY PROJECT.

2. COSTS FOR TEAM OF SIX TO EIGHT HIGHLY QUALIFIED  
VENEZUELAN ENERGY EXPERTS FOR TWO TO FOUR WEEK PROGRAM ARE  
INCLUDED IN POST'S IV ALLOCATION.

3. IF GOVERNMENT ACCEPTS OFFER, PLEASE SUBMIT  
RECOMMENDATIONS ON PROGRAM, AND ADVISE PROGRAM DATES AND  
DURATION.

4. II. WASHINGTON, D.C.

- A. FEDERAL ENERGY ADMINISTRATION -- A DISCUSSION OF  
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- THE GENERAL BACKGROUND OF U.S. ENERGY PROBLEMS,
- RECENT STEPS IN THE DEVELOPMENT OF A COMPREHENSIVE
- NATIONAL ENERGY POLICY, AND THE ROLE OF THE FEDERAL
- ENERGY AGENCY.

- B. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

- 1. BRIEFING AND DISCUSSION OF THE BACKGROUND,  
- ORGANIZATION AND PROGRAMS OF E.R.D.A.
- 2. DISCUSSION OF DEVELOPMENTS IN COAL CONVERSION  
- TECHNOLOGIES AND OTHER RESEARCH IN FOSSIL  
- ENERGY.
- 3. BRIEFING ON THE DEVELOPMENT OF ADVANCED HIGH-  
- TEMPERATURE GAS-COOLED REACTORS, LIQUID METAL  
- FAST BREEDER REACTORS, AND CONTROLLED THERMO-  
- NUCLEAR FUSION.
- 4. BRIEFING AND DISCUSSION ON E.R.D. A. RESEARCH  
- AND DEMONSTRATION PROJECTS IN THE SOLAR ENERGY  
- FIELD.
- 5. DISCUSSION OF RESEARCH ON THE UTILIZATION OF  
- GAS THERMAL ENERGY.

- C. BUREAU OF RECLAMATION, U.S. DEPARTMENT OF THE  
- INTERIOR -- DISCUSSION OF PROBLEMS IN HYDROEL-  
- ECTRIC POWER DEVELOPMENT.

5. II. PITTSBURGH, PENNSYLVANIA

- A. WESTINGHOUSE ELECTRIC CORPORATION -- BRIEFING AND  
- DISCUSSION OF EQUIPMENT FOR STEAM, HYDRO, AND  
- NUCLEAR POWER PLANTS AND VISIT TO WESTINGHOUSE'S  
- NUCLEAR CENTER AT NEARBY MONROEVILLE.
- B. GULF OIL RESEARCH CENTER -- DISCUSSION OF GULF  
- RESEARCH ON CATALYTIC COAL CONVERSION, COAL  
- LIQUEFACTION, AND PETROLEUM PRODUCTION INCLUDING  
- ENHANCED RECOVERY TECHNOLOGIES.

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- C. P.P.G. INDUSTRIES GLASS RESEARCH CENTER -- REVIEW  
- OF P.P.G. RESEARCH AND PRODUCTS FOR SOLAR HEATING  
- AND COOLING.
- D. E.R.D.A. ENERGY RESEARCH CENTER -- VISIT TO E.R.D.  
- A.'S RESEARCH CENTER AT BRUCETON TO DISCUSS AND  
- VISIT THE "SYNTHANE" COAL GASIFICATION PILOT  
- PLANT WHICH UTILIZES A FLUIDIZED BED PROCESS AND  
- A CATALYTICAL CONVERTER TO PRODUCE HIGH B.T.U. GAS.
- E. CONSOLIDATION COAL COMPANY -- DISCUSSION OF  
- CONSOLIDATION'S EXPERIENCE AS THE ORIGINATOR OF THE

- "CARBON DIOXIDE ACCEPTOR" COAL GASIFICATION PROCESS
- AND AS PRIME CONTRACTOR FOR THE PILOT PLANT AT
- RAPID CITY, SOUTH DAKOTA, WHICH USES CRUSHED
- LIMESTONE TO ABSORB CARBON DIOXIDE AND PRODUCE A
- GAS READY FOR METHANATION.
  
- F. PITTSBURGH AND MIDWAY COAL COMPANY -- DISCUSSION OF
- THIS GULF OIL COMPANY SUBSIDIARY'S EXPERIENCE WITH
- THE "SOLVENT REFINED COAL" PILOT PLANT AT FT. LEWIS,
- WASHINGTON, WHICH USES A NON-CATALYTIC, DIRECT-
- HYDROGENATION PROCESS TO PRODUCE FUEL WHICH IS
- LIQUID AT ELEVATED TEMPERATURES.
  
- G. KOPPERS COMPANY -- DISCUSSION OF THE COMPANY'S ROLE
- IN MAKING KOPPERS-TOTZEK COAL GASIFICATION PROCESS
- AVAILABLE FOR USE IN THE U.S.
  
- H. BLAW-KNOX COMPANY -- DISCUSSION OF BLAW-KNOX'S
- EXPERIENCE IN THE DESIGN AND CONSTRUCTION OF THE
- COED PILOT PLANT IN PRINCETON, NEW JERSEY, WHICH
- BREAKS DOWN COAL INTO OIL, GAS, AND CHAR THROUGH
- EXPOSURE TO PROGRESSIVELY HIGHER TEMPERATURES.

#### 6. III. BUFFALO, NEW YORK

- A. POWER AUTHORITY OF THE STATE OF NEW YORK --
- BRIEFING, TOUR AND TECHNICAL DISCUSSION WITH
- UNCLASSIFIED

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- OFFICIALS AND ENGINEERS AT THE ROBERT MOSES
- NIAGARA POWER PLANT NEAR NIAGARA FALLS.
  
- B. NIAGARA MOHAKPOWER COMPANY -- REVIEW OF TECHNICAL
- DEVELOPMENTS IN THE ELECTRICAL POWER INDUSTRY WITH
- OFFICIALS AND ENGINEERS OF THE BUFFALO-AREA
- ELECTRIC POWER COMPANY.

#### 7. IV. CHICAGO, ILLINOIS

- A. COMMONWEALTH EDISON COMPANY NUCLEAR PLANTS --
- VISIT TO THE COMPANY'S TWIN WESTINGHOUSE 110 MW
- (E) NUCLEAR PLANTS AT ZION, ILLINOIS, APPROXIMATELY
- SIXTY MILES NORTH OF CHICAGO.
  
- B. WESTINGHOUSE NUCLEAR TRAINING CENTER -- VISIT TO
- CENTER, ADJACENT TO COMMONWEALTH EDISON'S ZION
- PLANTS, WHICH TRAINS PERSONNEL FOR NUCLEAR PLANT
- OPERATION.
  
- C. INSTITUTE OF GAS TECHNOLOGY -- REVIEW OF THE
- RESEARCH WORK OF THE INSTITUTE, THE EDUCATION AND

- RESEARCH FACILITY OF THE NATION'S GAS INDUSTRY,
- INCLUDING THE DEVELOPMENT OF THE HYGAS COAL
- GASIFICATION PROCESS; VISIT TO THE HYGAS PILOT
- PLANT WHICH ADDS HYDROGEN TO ABOUT 75 TONS OF COAL
- PER DAY TO PRODUCE 1.5 MILLION CUBIC FEET OF
- HIGH-B.T.U. GAS.

8. V. DENVER, COLORADO

- A. BUREAU OF RECLAMATION, U.S. DEPARTMENT OF THE
  - INTERIOR -- REVIEW OF TECHNICAL DEVELOPMENTS IN
  - HYDROELECTRIC POWER GENERATION WITH OFFICIALS OF
  - THE BUREAU'S RESEARCH CENTER.
  - B. COLORADO ENERGY RESEARCH INSTITUTE AND COLORADO
  - SCHOOL OF MINES, GOLDEN -- VISIT TO INSTITUTE
  - ESTABLISHED BY THE STATE LEGISLATURE TO GUIDE AND
  - FUND RESEARCH ON ENERGY AND ENERGY-RELATED MINERALS;
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- SURVEY OF ENERGY RESEARCH AT SCHOOL OF MINES.
- C. PUBLIC SERVICE COMPANY OF COLORADO AND STEARNS-
- ROGERS COMPANY -- BRIEFING ON P.S.C.'S 300 MWE FORT
- ST. VRAIN NUCLEAR PLANT, WHICH EMPLOYS THE WORLD'S
- FIRST COMMERCIAL HIGH TEMPERATURE GAS-COOLED
- REACTOR; DISCUSSION OF STEARNS-ROGERS' EXPERIENCE
- IN THE CONSTRUCTION OF THE FORT ST. VRAIN NUCLEAR
- PLANT AND OF SEVERAL COAL GASIFICATION PLANTS.

9. VI. SAN FRANCISCO, CALIFORNIA

- A. UNIVERSITY OF CALIFORNIA, BERKELEY -- VISITS TO THE
- LAWRENCE BERKELEY LABORATORIES AND/OR OTHER
- UNIVERSITY DEPARTMENTS ENGAGED IN RESEARCH ON
- NON-CONVENTIONAL SOURCES OF ENERGY.
- B. STANFORD UNIVERSITY, PALO ALTO -- VISIT TO STAN-
- FORD DEPARTMENTS OR INSTITUTES ENGAGED IN VARIOUS
- TYPES OF ENERGY RESEARCH.
- C. ELECTRIC POWER RESEARCH INSTITUTE, PALO ALTO --
- DISCUSSION OF THE INSTITUTE'S LARGE SCALE PROGRAM
- OF GRANTS, FUNDED BY THE NATION'S ELECTRIC UTILITY
- INDUSTRIES, FOR RESEARCH ON NUCLEAR POWER, FOSSIL
- FUELS FOR ELECTRIC POWER GENERATION, TRANSMISSION
- AND DISTRIBUTION, ENVIRONMENTAL PROTECTION, AND
- CONSERVATION.
- E. GEYSERS GEOTHERMAL POWER PROJECT -- VISIT TO
- D. PACIFIC GAS AND ELECTRIC COMPANY, SAN FRANCISCO--

- DISCUSSION OF PG&E'S EXPERIENCE IN OPERATING THE
  - FIRST COMMERCIALY LICENSED NUCLEAR POWER PLANT
  - IN THE U.S. AND THE ONLY COMMERCIALY OPERATING
  - GEOTHERMAL POWER PLANT IN THE U.S.
  
  - E. GEYSERS GEOTHERMAL POWER PROJECT--VISIT TO PACIFIC
  - GAS AND ELECTRIC'S GEOTHERMAL PLANT.
  
  - F. BECHTEL CORPORATION--DISCUSSION OF BECHTEL'S
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- EXPERIENCE IN CONSTRUCTING NUCLEAR AND HYDROELEC-
- TRIC POWER PLANTS.

10. VII. PORTLAND, OREGON

- A. BONNEVILLE POWER ADMINISTRATION--DISCUSSION OF
- HYDROELECTRIC POWER PRODUCTION AND THE OPERA-
- TIONS OF THE PACIFIC INTERTIE TRANSMISSION SYSTEM.
  
- B. PORTLAND GENERAL ELECTRIC COMPANY--DISCUSSION AND/
- OR TOUR OF PGEC'S 1,130 MW(E) TROJAN NUCLEAR
- PLANT.

11. VIII. DALLAS, OREGON

- A. BONNEVILLE DAM--VISIT TO THE OLDEST FEDERAL
- POWER PROJECT ON THE COLUMBIA RIVER, INCLUDING
- EXTENSIVE RIVER MODELS.
  
- B. CELILO CONVERTER STATION--VISIT TO THE NORTHERN
- TERMINAL OF THE PACIFIC INTERTIE, THE WORLD'S
- LONGEST HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION
- SYSTEM.

12. IX. EPHRATA, WASHINGTON

- A. GRAND COULEE DAM AND POWER PLANT--BRIEFING AND
- TOUR WITH BUREAU OF RECLAMATION OFFICIALS OF
- DAM AND POWER PLANTS, INCLUDING THE THIRD POWER
- PLANT, WHICH WILL BOOST THE TOTAL CAPACITY TO
  
- 7,500 MW, THE LARGEST OF ANY HYDRO PLANT IN THE
- WORLD.

13. X. SEATTLE, WASHINGTON

- A. SOLVENT REFINED COAL PILOT PLANT--VISIT TO
- THE PILOT PLANT, ON THE U.S. ARMY'S FT. LEWIS
- RESERVATION NEAR TAKOMA, WHICH IS TESTING A COAL
  
- LIQUEFACTION PROCESS DEVELOPED BY THE PITTSBURGH AND

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- MIDWAY COAL MINING COMPANY.
  
- B. BATTELLE MEMORIAL INSTITUTE--VISIT TO BATTELLE'S
- PILOT PLANT FOR REMOVAL OF FLYASH AND SULFUR COM-
- POUNDS FROM LOW-B.T.U. FUEL GAS AND DISCUSSION
- OF OTHER ENERGY RESEARCH AT BATTELLE'S PACIFIC
- NORTHWEST LABORATORIES.

14. XI. RAPID CITY, SOUTH DAKOTA

- A. CONSOLIDATION COAL COMPANY GASIFICATION PLANT--
- VISIT TO PILOT PLANT WHICH IS TESTING A UNIQUE
- FLUIDIZED-BED SYSTEM TO CONVERT LIGNITE OR SUB-
- BITUMINOUS COAL TO PIPELINE-QUALITY GAS BY CON-
- SOLIDATION COAL'S "CARBON DIOXIDE ACCEPTOR"
- PROCESS.

15. XII. ALBUQUERQUE, NEW MEXICO

- A. LOS ALAMOS SCIENTIFIC LABORATORY AND SANDIA
- LABORATORIES--EXAMINE SOLAR ENERGY RESEARCH
- PROJECTS.

16. FYI CARACAS: MAXWELL CHAPLIN IS THE U.S. DELEGATE  
TO VII ANNUAL MEETING OF CIECC. KISSINGER

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## Message Attributes

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04 MAY 2006

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